

PATENT ABSTRACTS OF JAPAN

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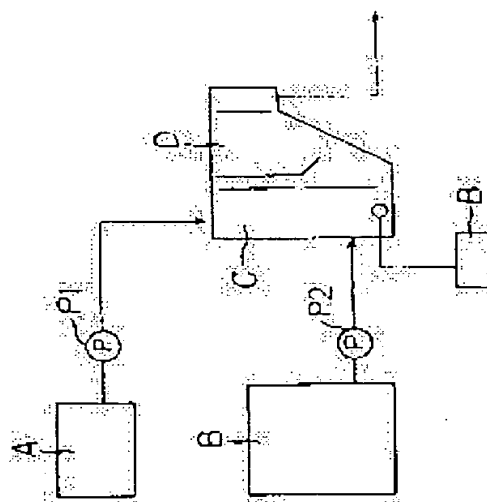
(54) TREATMENT OF WASTE WATER

(57)Abstract:

PURPOSE: To remove nitrogen compd., sulfur compd., etc. efficiently from waste water contg. nitrogen compd. and sulfur compd., by growing activated sludge contg. an ammonium salt, etc. as a main source for nutrition under aerobic conditions and admitting said waste water into this activated sludge.

CONSTITUTION: Activated sludge contg. bacterium group for oxidizing sulfur as a priority seed is fed as seed sludge into an aeration tank C, and while aerobic conditions are maintained therein, ammonium thiosulfate is fed as a source for nutrition therein from a tank A by a pump P1. The sludge is acclimatized by maintaining the pH in the tank C at 7W8 and the temp. at 25° C. In this state, it is confirmed that the thiosulfate radical of the above-described compd. is converted to sulfate radical, whereafter waste water contg. dithionic acid and ammonia is fed therein from a tank B with a pump P2.

In this method, the time for treatment is reduced by about 10 days as compared to the acclimatization by thiocyanate which is practised in the conventional art.



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